



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

\*\*\*PO REPRINT\*\*\*

Purchase Order ID PO20015

Purchase Order Date 5/29/2013

PO Print Date 5/29/2013

Page Number 1 of 1

Order From :

VC-MET004

METCOR INC.  
560 BOUL. ARTHUR SAUVE  
SAINT-EUSTACHE, QC J7R 5A8  
CA

Contact Name

Vendor Phone 450 473 1884

Vendor Fax 450 491 5498

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr 10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

Ship To :

DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req. Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1		HEAT TREAT 17-4 PH- H900 BAR 4" X 4-3/4"	6/24/2013 Yes	4.00 Each	<i>Feet</i> TST ground	\$0.0000	\$0.00
		Special Inst:	17-4 PH BAR 4" X 4-3/4" SENT FROM: CAMPI P/O:20013 HEAT TREAT TO COND H900 FTY IN EXCESS OF 170KSI FTU IN EXCESS OF 190KSI PER AMS2759/3 PLEASE ADVISE PRICE \$\$\$\$\$\$				
PO Total:							\$0.00



Change Nbr: 2

Change Date: 5/29/2013

No substitution or deviation without  
consent.

Certificate of Conformity or Material  
Certification required - YES NO

## Josee Bonhomme

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**De:** Brigitte Golden <bgolden@dartaero.com>  
**Envoyé:** 29 mai 2013 15:04  
**À:** Josee Bonhomme  
**Objet:** new p/o"s  
**Pièces jointes:** po20015 metcor.pdf; po20016 metcor.pdf

Hi Josee,  
Please see p/o"s material has been order from Campi and Metaux caslte, will direct to you for heat treat.  
Thanks  
Chantal

**MONTREAL : 514 336-4248**  
**FAX : 514 336-4246**

**DISTRIBUTEUR D'ACIER ET MÉTAUX SPÉCIALISÉS**  
**STEEL AND SPECIALTY METALS DISTRIBUTOR**

*On a du Savoir* "FER"

**ONTARIO : 1 800 667-4248**  
**FAX : 1 866 456-4242**

**VENDU À / SOLD TO:**

0025-33-613 613-259-1055

EXPÉDIEZ À / SHIP TO:

DART AEROSPACE LTD  
1270 ABERDEEN STREET  
WAWKESEBURY,  
ONTARIO  
M6A 1K7

METCOR INC.  
560 BDLV. ARTHUR SAUVE  
SAINT-EUSTACHE, J7R 5A8

[illegible]

every

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TIME \_\_\_\_\_

**N°**  
**BON DE LIVRAISON**  
**PACKING SLIP**

DATE DE LIVRAISON  
DELIVERY DATE

VOTRE N° DE COMMANDE / YOUR P.O. N°  
0020013

VENDOR / SALES CODE CLIENT / CUST. CODE 12345	EXPEDIE PAR / SHIP VIA 12345
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**TERMS / TERMS**

TERR. 00

REMARKS / REMARKS

PAGE No. 139

[illegible]

* Unités de mesure : Units of measure	CLB Cent livres Hundred pounds	CPI Cent pds Hundred feet	UN Unité Unit	PI Pied Foot	PC Pied carré Square foot
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### CONDITIONS :

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**CONDITIONS:**

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LIVRÉ / DELIVERED	HEURE / TIME
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TOTAL

SIGNATURE DU CLIENT / CUSTOMER'S SIGNATURE

DATE \_\_\_\_\_

56134

<b>MATERIAL CERTIFICATION REPORT and CERTIFICATION OF QUALITY CONFORMANCE</b>		<b>Customer Address</b>	<b>Shipping Address</b>	<b>Print Date Time</b>	<b>Ship Note</b>
 <b>ELECTRALLY G. O. CARLSON PLATE</b> 175 Main Street Old City PA 16841 1 (800) 453-7773		C		02-Nov-2012 11:18 Certification ID 139507-1 Customer Order	120716 Sales Order 114950

Grade: 17-4

Specification: UNS-S17400; Plate, ASTM A693-06 Type 630, Condition A, ASME SA693 ASME B2PV Code Section II, 2010 Edition, 2011a Addenda, AMS-5604F with AMS-2750D Pyrometry. Material supplied in Condition A with Hardness reported in Condition A. Capability testing reported in 900 Deg F (+/-10) Precipitation Treatment. General Requirements ASTM A480-12/ Fitness ASTM A480-99b. Surfaces are Grit Blast-Descaled in lieu of Blast Cleaned or Pickled. Material Certification conforms to Certificate 3.1 in EN10204.

Condition: HOT ROLLED, ANNEALED

Finish: BLASTED


Sales Order	Quantity	Heat	Lot ID	Weight	Size	Customer Mark
114950-1	1	52447	52447-4	9,056 LB	Length: 124,000 in; Thick: 4,000 in; Width: 62,500 in	

Lot	Test	Result	Low Limit	High Limit
<b>SPECIFICATION RESULTS</b>				
<b>FINAL ANALYSE CHEMISTRY FOR AIRMELT</b>				
52447	C	0.036	0.000	0.070
52447	CrTa	0.32	0.15	0.45
52447	Mn	0.54	0.00	1.00
52447	P	0.020	0.000	0.040
52447	S	0.001	0.000	0.030
52447	Si	0.47	0.00	1.00
52447	Cr	15.17	15.00	17.50
52447	Ni	4.51	3.00	5.00
52447	Mo	0.26	0.00	0.50
52447	Cu	3.52	3.00	5.00
52447	5C <= Cb	0.320	0.150	0.450
52447	Ta	0.01	0.00	0.05
<b>ROCKWELL C</b>				
52447-4	(Rc)	34	0	38
<b>H900 Capability for plate sizes greater than 0.625" thick</b>				
<b>REDUCTION AREA</b>				
52447-4	TT (%)	38	30	100
<b>TENSILE</b>				
52447-4	TT (PSI)	205400	190000	230000
<b>.28 YIELD OFFSET</b>				
52447-4	TT (PSI)	184000	170000	210000
<b>ELONGATION 2 in.</b>				
52447-4	TT (%)	15	10	50


A- 7024  
 S/O#: 20549  
 CUST: Acier Campi  
 P.O.#: 56134

The recording of film, facsimile, or facsimile transmits or entries on this document may be permissible as a library under Federal Statute. The above test results and correct results of tests on samples of the material. Results conform to the specification(s) listed above and are on record. At time of shipment, items and/or material produced under this order have not come into contact with Mercury or its compounds.

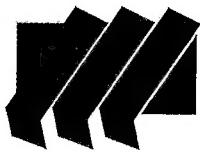
56134

<b>MATERIAL CERTIFICATION REPORT and CERTIFICATION OF QUALITY CONFORMANCE</b>		<b>Print Date Time</b> 02-Nov-2012 11:18 <b>Certification ID</b> 139507-1 <b>Customer Order</b> Sales Order <b>Ship Note</b> 120716 <b>114950</b>
		<b>Shipping Address</b> 
<b>Customer Address</b> 175 Main Street Old City PA 16301 1 (800) 458-7273		

**Quality Statements:**  
 Material Certification conforms to Certificate 3.1 as in EN10204:2010.  
**NO WELDS PERFORMED.**  
 Material was not exposed to Radium or other radioactive materials while at our facility.  
 ASTM E1019-08, ASTM E572-02a (2000)2 and ASTM E1086-08 are methods used to determine the chemical analysis for Fe Base (High Alloy) alloys utilizing XRF, OES and Combustion and Fusion Methods.  
 All items are in full compliance with all purchase order and specification requirements.  
 The Mechanical Tests have been performed at Lehigh Testing Laboratories, Inc. located at 308 West Basin Road, New Castle, DE 19720.  
 Material furnished on this order was produced under Electralloy Quality Program dated June 7, 2011.  
 It is hereby certified that all items furnished in this shipment are in full compliance with the purchase order and specification requirements. It is further certified that the test reports represent the actual attributes of the items furnished and are in full conformance with all applicable specifications and order requirements.  
 Materials produced under this order have not come into contact with Mercury or its compounds within G.O. Carlson, Inc. facilities.  
 100% Method, Rolled and Manufactured in the USA.

Meets EU Electrical "RoHS". Contains NO "WEEE" relevant substances. Complies with DFARS-225.1-Buy American Act-Supplies. HWRR - Minimum Hot Working Reduction Ratio. Electralloy only accepts residual and trace elements to the limits invoked by the specification and or customer. This document shall not be reproduced, except in full, without the written approval of Electralloy / GOC Plate. We hereby affirm that the reported results on this certification are correct and accurate. All tests and results and operations performed by (Electralloy/G.O. Carlson Plate) or its subcontractors are in compliance with the applicable material/customer specification(s). The parties agree that when title transfers for the products subject to this agreement, or when the products are delivered to purchaser, whichever occurs first, responsibility for the submission of any required export or re-export licenses or related export control approvals for these products also transfers to purchaser. Any export license requirement under any applicable export control statute, regulation, or practice, from any U.S. government agency, including but not limited to the Department of Commerce's Bureau of Industry and Security, the Department of Treasury, Office of Foreign Assets Control, the U.S. Department of State, Directorate of Defense Trade Controls, and the Nuclear Regulatory Commission, are solely the responsibility of the purchaser. Further, purchaser warrants that it will comply with all applicable export and re-export controls related to these products.	<b>Name:</b> David A. Fulkerson <b>Title:</b> QC Technician/Works Inspector <b>By:</b> 
The recording of data, fixtures, or finished assemblies or entire on this document may be practicable as a filing under Federal Statute. The above are true and correct results of tests on samples of the material. Results conform to the specification(s) listed above and are on record. At time of shipment, items and/or material produced under this order have not come into contact with Mercury or its compounds.	





# METCOR INC.

560 BOUL. ARTHUR-SAUVÉ  
ST-EUSTACHE, QC, J7R 5A8  
Tel.: 450 473-1884 / Téléc. / Fax : 450 491-5498

## Certificat de Conformité Certificate of Compliance

BON DE TRAVAIL order	CHARGEMENT load
187132	1

CLIENT / customer 215

DART AEROSPACE  
1270 ABERDEEN  
HAWKESBURY

ON K6A 1K7

LIVRÉ À / shipped to:

DART AEROSPACE  
1270 ABERDEEN  
HAWKESBURY

1

ON K6A 1K7

COMMANDE DU CLIENT customer po	BON DE LIVRAISON DU CLIENT customer shipper no.	MATÉRIEL material	CODE DE TRAITEMENT mat'l heat code	NUMÉRO DE LOT lot number
PO20015		17-4PH		
SPÉCIFICATIONS DU PROCÉDÉ processing specifications				
AGE HARDEN CONDITION H 900 SAE AMS 2759/3 REV.E				
EXIGENCE / requirement    SPÉCIFICATIONS / specified    TESTS EXÉCUTÉS / performed    RÉSULTATS DE TESTS / results				
HARDNESS		40 - 47 HRC	2	44.0 - 45.0 HRC
QUANTITÉ quantity	POIDS weight	DESCRIPTION DES PIÈCES parts description		
2	325	BAR 4" X 4 3/4" 2 PCS = 4 PIEDS MATÉRIEL: 17-4PH  CONTENANT: 1 PALETTE		

### COMMENTAIRES / comments

LES TRAITEMENTS THERMIQUES SUR CETTE COMMANDE A ÉTÉ FAIT EN UTILISANT DE S ÉQUIPEMENTS EN CONFORMITÉ AVEC LES REQUIS DE LA SPÉCIFICATION AMS2759. TOUTES LES OPÉRATIONS DE TRAITEMENT THERMIQUE ONT ÉTÉ FAITES EN CONFORMITÉ AVEC LES REQUIS DE LA SPÉCIFICATION DEMANDÉE ET TOUTES LES VÉRIFICATIONS ET LES TESTS DEMANDÉES ONT ÉTÉ FAITES ET DOCUMENTÉS.

AUCUN CHANGEMENT OU DÉROGATION N'A ÉTÉ FAITE PAR RAPPORT AU TRAITEMENT THERMIQUE DEMANDÉ. ON CERTIFIE QUE LE MATÉRIEL A ÉTÉ FABRIQUÉ, ÉCHANTILLONNÉ, TESTÉ ET INSPECTÉ EN ACCORD AVEC LES SPÉCIFICATIONS DU MATÉRIEL ET LE BON DE COMMANDE ET LE MATÉRIEL RENCONTRE LES EXIGENCES SPÉCIFIÉS.

ACCOMPLISHED USING HEAT TREATMENT EQUIPEMENT THAT MEETS THE REQUIREMENTS OF AMS 2759. ALL THE HEAT TREATMENT OPERATIONS WERE ACCOMPLISHED IN ACCORDANCE WITH THE REQUESTED/REQUIRED HEAT TREATMENT SPECIFICATION AND ALL REQUIRED VERIFICATIONS TEST HAVE BEEN PERFORMED AND DOCUMENTED. NO UNAUTHORIZED CHANGES OR ALL THE HEAT TREATMENT PROCESSING PERFORMED ON THIS ORDER WAS DEVIATIONS TO REQUIRED HEAT TREATMENT SPECIFICATIONS OR PROCEDURES HAVE BEEN PERFORMED.

WE CERTIFY THAT THE MATERIAL WAS MANUFACTURED, SAMPLED, TESTED AND INSPECTED IN ACCORDANCE WITH THE MATERIAL SPECIFICATION AND THE PURCHASE ORDER AND WAS FOUND TO MEET THE REQUIREMENTS.



# METCOR INC.

560 BOUL. ARTHUR-SAUVÉ  
ST-EUSTACHE, QC, J7R 5A8

Tél.: 450 473-1884 / Téléc. / Fax : 450 491-5498

## Certificat de Conformité

Certificate of Compliance

BON DE TRAVAIL order	CHARGEMENT load
187132	1

CLIENT / customer 215

DART AEROSPACE  
1270 ABERDEEN  
HAWKESBURY

ON K6A 1K7

LIVRÉ À / shipped to:

DART AEROSPACE  
1270 ABERDEEN  
HAWKESBURY

1

ON K6A 1K7

CERTIFIÉ par / Certified by:

*Isabelle G...*

DATE: 2013-07-02

